965

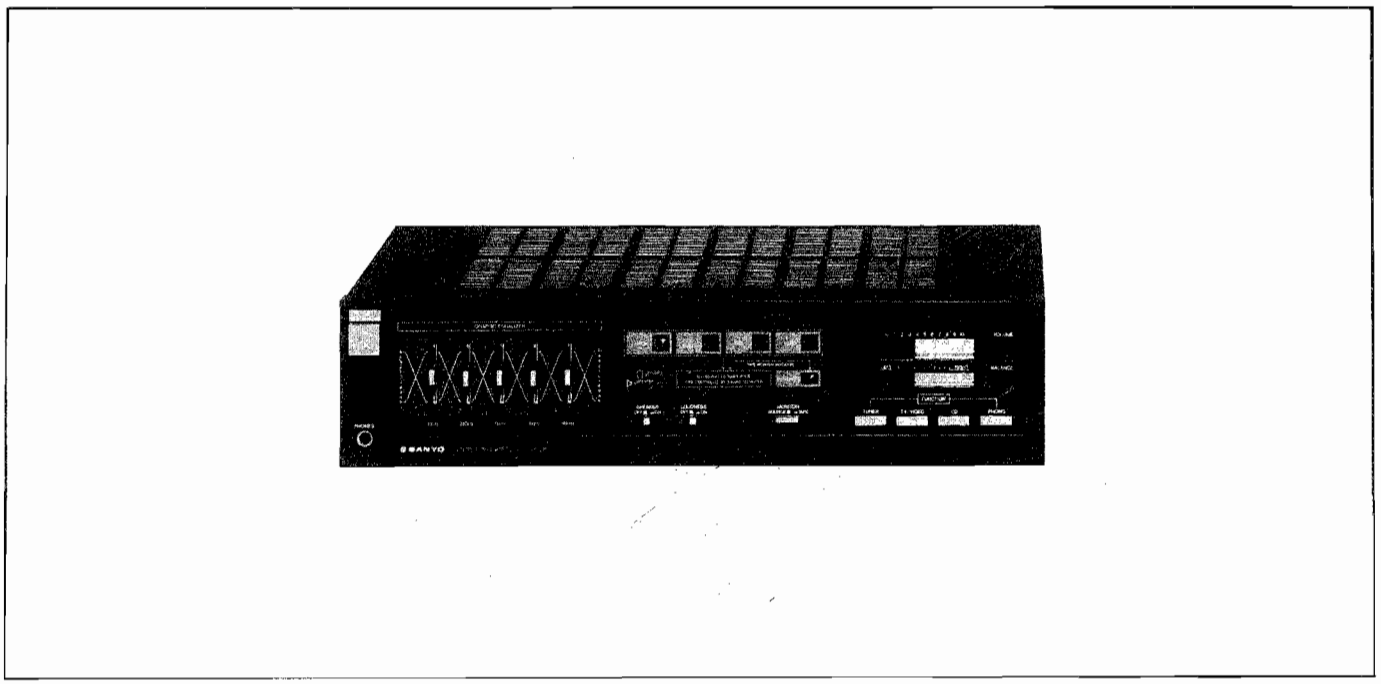
SERVICE MANUAL

POWER AMPLIFIER

SANYO

JA 566 BLACK

(EUROPE)



SPECIFICATIONS

The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

Continuous output power	55 W x 2 (at 8 ohms, 1% distortion)
Input sensitivity and impedance	
PHONO	2.5 mV/47 kohms
CD/TV/VIDEO/TAPE PLAY	150 mV/47 kohms
Output level	
TAPE REC	150 mV
Frequency response	20 Hz – 20 kHz (TV/VIDEO)
Graphic equalizer	±10 dB (63/250/1000/4000/16000 Hz)
Loudness control response	
(Vol. –30 dB)	+8 dB/+4 dB (100 Hz/10 kHz)
Signal to noise ratio	95 dB (TV/VIDEO)
Power requirements	AC: 220 V, 50 Hz
Power consumption	270 W
Dimensions (W x D x H)	Approx. 420 x 240 x 100 mm (16-1/2" x 9-1/2" x 4")
Weight	Approx. 5.6 kg (12 lbs. 6 ozs.)

* Specifications subject to change without notice.

WM-

965

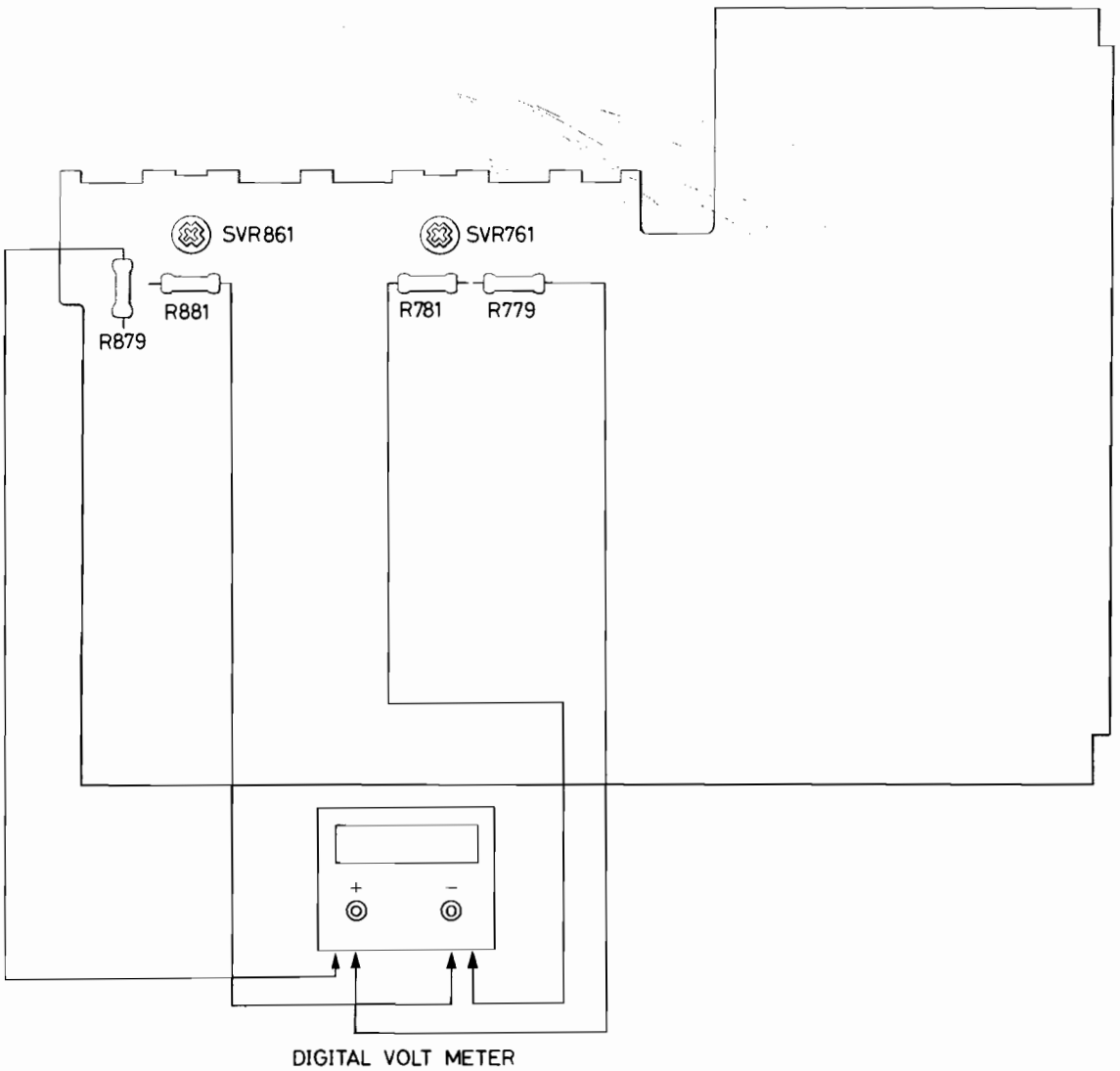
BIAS CURRENT ADJUSTMENT

CONDITIONS

VOLUME	:	Minimum
BALANCE	:	Center
EQUALIZER	:	Center
FUNCTION	:	CD/VIDEO
SPEAKER	:	OFF
Output Load	:	No Load

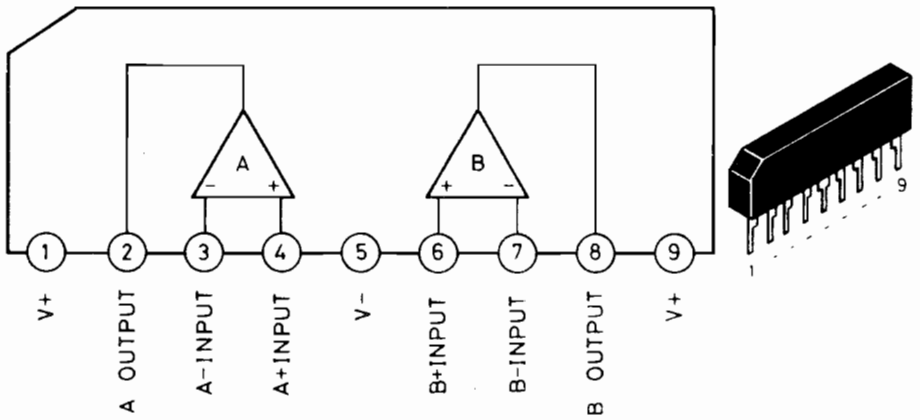
Adjustment should be made after 3 minutes that the power switch is turned on.

1. Adjust SVR703 to obtain 1.0 mV reading between terminals of R779 and R781.
2. Adjust SVR803 to obtain 1.0 mV reading between terminals of R879 and R881.

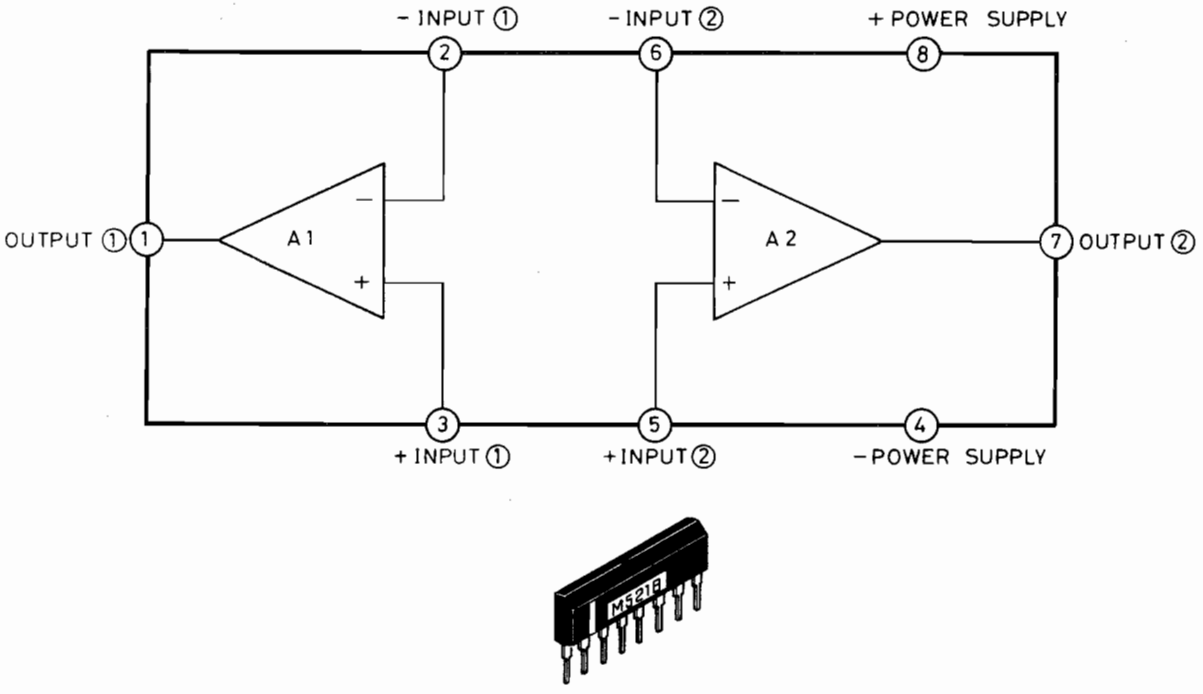


IC BLOCK DIAGRAMS

IC701/IC702 NJM4558SD



IC702 M5218L



PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

NOTE:

* Materials of Capacitors and Resistors are abbreviated as follows;

AL ELECT .....Aluminum Electrolytic
BC CON .....Semiconductor Ceramic
CHIP BC .....Chip Semiconductor Ceramic
CHIP TAN .....Chip Tantal
ELECT .....Electrolytic
PP CON .....Polypropylene
MT GLAZE .....Metal Glaze
FP CARBON .....Flameproof Carbon

* Tolerance of Capacitors and Resistors are noted with follow symboles;

J .....±5%
K .....±10%
M .....±20%
N .....±30%
P .....+100−0%
Q .....+30−10%
Z .....+80−20%

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	141-6-144T-98500	FOAM PLASTIC CASE
	141-6-235T-40601	INNER POLYE LAMINA COVER, SET
	141-6-235T-40605	INNER POLYE LAMINA COVER, SET
	141-6-409T-23402	INST MANUAL
	141-6-231T-20300	INNER POLYE COVER, ACCESSORY
	141-6-415T-27800	NOTICE
	141-6-479T-32300	LABEL
	141-6-144T-98500	FOAM PLASTIC CASE
	141-6-133T-74000	INNER CORR CASE

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-122T-60707	FRONT PANEL ASSY
2	141-0-125T-34301	BOTTOM LID ASSY
3	141-2-119T-02922	BACK PANEL
4	141-2-315T-28603	REINFORCEMENT, POWER TRANSFORMER
5	141-2-160T-60300	PUSH BUTTON, FUNCTION
6	141-2-160T-60430	PUSH BUTTON, MONITOR
7	141-2-160T-60800	PUSH BUTTON, SPEAKER/LOUDNESS
8	141-2-253T-18600	JOINT, SPEAKER
9	141-2-164T-40700	SLIDE KNOB, VOLUME
10	141-2-164T-40800	SLIDE KNOB, BALANCE
11	141-2-290T-12500	BRACKET, VOLUME
12	141-2-290T-12900	BRACKET, BALANCE
13	141-2-448T-16700	CUSHION, VOLUME
14	141-2-448T-16701	CUSHION, BALANCE
15	141-2-210T-08900	BRACKET, MAIN PCB
16	141-2-111T-62003	CABINET
17	141-2-210T-71200	BRACKET, CONNECTOR
18	141-2-210T-71300	BRACKET, CONNECTOR
19	141-2-464T-14400	FIXER, AC POWER CORD
20	141-2-164T-40900	SLIDE KNOB, EQUALIZER
21	141-2-156T-37900	CUP KNOB, POWER SWITCH
22	141-2-160T-60500	PUSH BUTTON, POWER SWITCH
23	141-2-329T-10100	REFLECTOR, FUNCTION LED
24	141-2-310T-75101	BRACKET, RIGHT, HEAT SINK
25	141-2-310T-75001	BRACKET, LEFT, HEAT SINK
28	141-2-447T-84001	CUSHION
Y1	BJB2S++3+8+ZK	S T BIND H 3X8ZK
Y2	BJB2S++3+8+Z1	S T BIND H 3X8Z1
Y3	BJB2S++3+6+Z1	S T BIND H 3X6Z1
Y4	BJESS++4+8+Z1	S M BIND H 4X8Z1
Y5	BJB2S++310+Z1	S T BIND H 3X10Z1
Y6	BJX6S++3+8+Z1	S T WASHER H 3X8Z1
Y7	BJBYS++312+Z1	S M BIND H 3X12Z1
Y8	WJBWS++3J10N1	WASHER 3
Y9	WJHGK++3K0CZ1	TH LOCK WASHER 3
Y10	141-2-421T-28800	SPECIAL SCREW
Y11	141-2-421T-43931	SPECIAL SCREW

ELECTRICAL PARTS

Ref. No.	Part No.	Description
50	⚠ 4-320T-00700	POWER TRANSFORMER
51	⚠ 4-243T-84973	AC POWER CORD
52	⚠ 4-234T-11090	FUSE, 250V, T3.15A, (F701/801)
53	141-2-368T-30700	HEAT SINK
54	141-2-327T-26172	INSULATOR, POWER TRANSISTOR
55	141-2-327T-26100	INSULATOR, BIAS TRANSISTOR
56	⚠ 4-234T-11088	FUSE, 250V, T2.0A (F999)
58	141-2-243T-09800	BASE
64	4-237T-09983	TERMINAL BOARD, 4P SPKR
67	4-285T-19971	P.C BOARD, POWER TRANS. (PRA)
	4-240T-83573	SOCKET, 3P
	4-240T-83574	SOCKET, 4P
	4-240T-83575	SOCKET, 5P
	4-240T-83576	SOCKET, 6P
	4-240T-83577	SOCKET, 8P
	4-240T-47673	SOCKET, 3P
	141-2-135T-75700	COVER, C999

MAIN P.C.B. ASSY

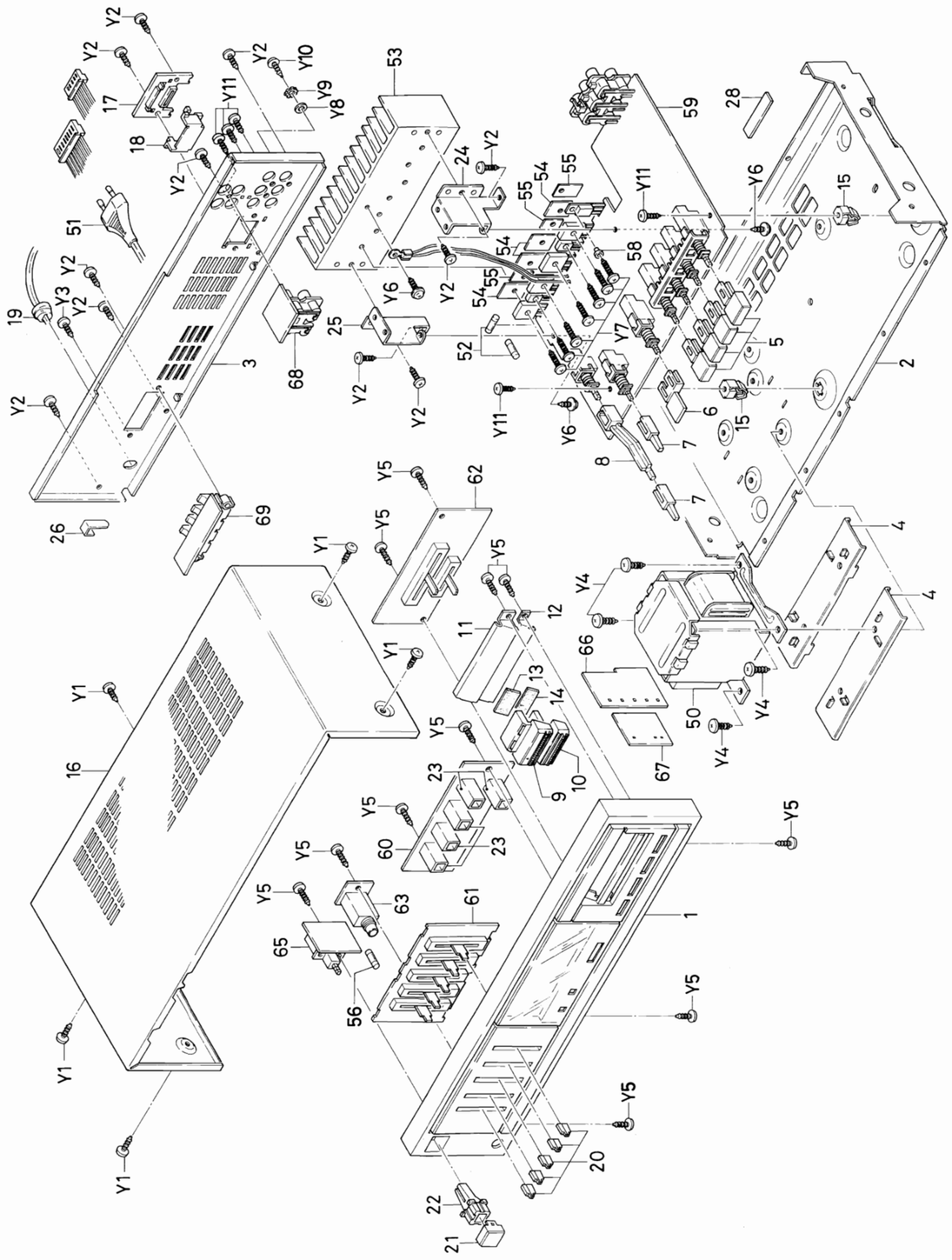
Ref. No.	Part No.	Description
59	141-4-285T-19171	P.C BOARD ASSY, MAIN
	4-240T-50572	SOCKET, PHONO/CD/AUX
	4-267T-02680	SOCKET, TUNER
	4-236T-32277	PLUG
	141-2-381T-04202	BRACKET, FUSE
	4-232T-06300	RELAY

PARTS LIST

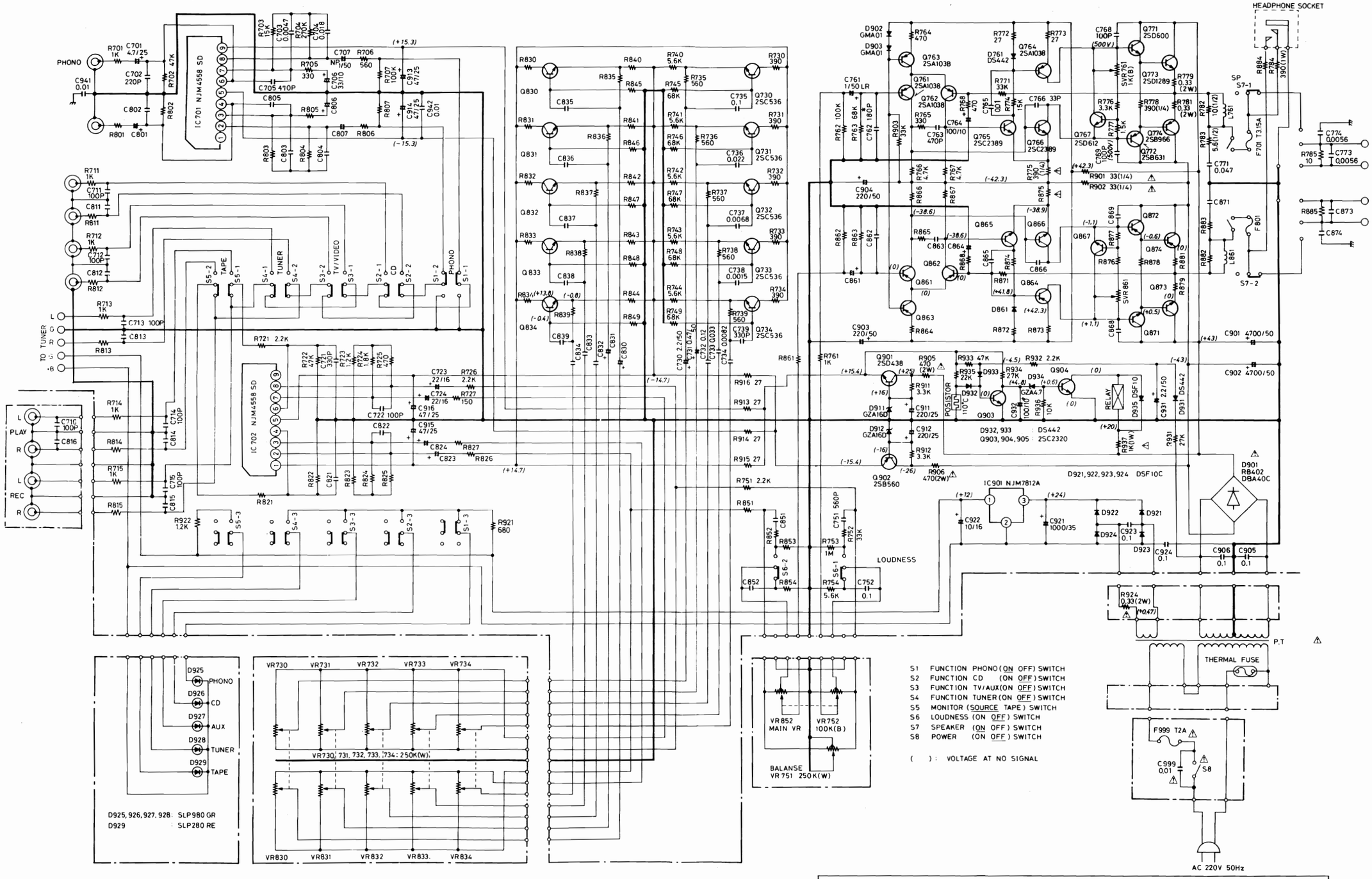
Ref. No.	Part No.	Description
	4-209T-01174	POZISTOR, 110° C
L761	4-265T-07930	VHF COIL
L861	4-265T-07930	VHF COIL
S1~4	4-248T-02400	SWITCH, FUNCTION
S5	4-248T-02500	SWITCH, MONITOR
S6	4-248T-02600	SWITCH, LOUDNESS
S7	4-238T-73671	SWITCH, SPEAKER SELECT
SVR761	4-222T-73573	SEMI VARIABLE RESISTOR, 1K OHM
SVR861	4-222T-73573	SEMI VARIABLE RESISTOR, 1K OHM
IC701	SINJM4558SD++	IC NJM4558SD SIP09
IC702	SIM5218L+++++	IC M5218L SIP08
or	SINJM4558SD++	IC NJM4558SD SIP09
IC901	SINJM7812A+++	IC NJM7812A SIP03
Q730	STC536+G+++UB	TR 2SC536 G AUD B SP
Q731	STC536+G+++UB	TR 2SC536 G AUD B SP
Q732	STC536+G+++UB	TR 2SC536 G AUD B SP
Q733	STC536+G+++UB	TR 2SC536 G AUD B SP
Q734	STC536+G+++UB	TR 2SC536 G AUD B SP
Q761	STA1038S+++++	TR 2SA1038 S
Q762	STA1038S+++++	TR 2SA1038 S
Q763	STA1038S+++++	TR 2SA1038 S
Q764	STA1038S+++++	TR 2SA1038 S
Q765	STC2389S+++++	TR 2SC2389 S
Q766	STC2389S+++++	TR 2SC2389 S
Q767	STD612+F+++++	TR 2SD612 F
Q771	STD600+E+++K+	TR 2SD600 E K
Q772	STB631+E+++K+	TR 2SB631K E
Q773	STD1289Q+++++	TR 2SD1289 Q
Q774	STB966+Q+++++	TR 2SB966 Q
Q830	STC536+G+++UB	TR 2SC536 G AUD B SP
Q831	STC536+G+++UB	TR 2SC536 G AUD B SP
Q832	STC536+G+++UB	TR 2SC536 G AUD B SP
Q833	STC536+G+++UB	TR 2SC536 G AUD B SP
Q834	STC536+G+++UB	TR 2SC536 G AUD B SP
Q861	STA1038S+++++	TR 2SA1038 S
Q862	STA1038S+++++	TR 2SA1038 S
Q863	STA1038S+++++	TR 2SA1038 S
Q864	STA1038S+++++	TR 2SA1038 S
Q865	STC2389S+++++	TR 2SC2389 S
Q866	STC2389S+++++	TR 2SC2389 S
Q867	STD612+F+++++	TR 2SD612 F
Q871	STD600+E+++K+	TR 2SD600 E K
Q872	STB631+E+++K+	TR 2SB631K E
Q873	STD1289Q+++++	TR 2SD1289 Q
Q874	STB966+Q+++++	TR 2SB966 Q
Q901	STD438+F+++++	TR 2SD438 F
Q902	STB560+F+++++	TR 2SB560 F
Q903	STC2320F+++++	TR 2SC2320 F
Q904	STC2320F+++++	TR 2SC2320 F
D761	SDDS442+X+++T	DIODE DS442 X
D861	SDDS442+X+++T	DIODE DS442 X
D901	⚠ SDDBA40+C++++	DIODE DBA40 C FORMING
or	⚠ SDRB40++2++++	DIODE RB40 2
D902	SDGMA01+++++T	DIODE GMA01
D903	SDGMA01+++++T	DIODE GMA01
D911	SDGZA160Y++++	ZENER DIODE GZA16Y
D912	SDGZA160Y++++	ZENER DIODE GZA16Y
D921	SDDSF10+C+++T	DIODE DSF10 C T
D922	SDDSF10+C+++T	DIODE DSF10 C T
D923	SDDSF10+C+++T	DIODE DSF10 C T
D924	SDDSF10+C+++T	DIODE DSF10 C T
D931	SDDS442+X+++T	DIODE DS442 X
D932	SDDS442+X+++T	DIODE DS442 X
D933	SDDS442+X+++T	DIODE DS442 X
D934	SDGZA047Y++++	ZENER DIODE GZA4.7Y
D935	SDDSF10+C+++T	DIODE DSF10 C T
C701	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C702	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C703	CB+25471KRXRF	BC CON 470PF 25V K R XR
C704	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C705	CC+50471KRSLF	CERAMIC 470PF 50V K R SL
C706	CE+10336MR++F	ELECT 33MF 10V M R
C707	CW+50105RVLRS	NONPOLAR 1MF 50V R V LR

Ref. No.	Part No.	Description
C711	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C712	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C713	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C714	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C715	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C721	CC+50331KRSLF	CERAMIC 330PF 50V K R SL
C722	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C723	CE+16226MR++F	ELECT 22MF 16V M R
C724	CE+16226MR++F	ELECT 22MF 16V M R
C730	CE+50225MR++F	ELECT 2.2MF 50V M R
C731	CE+50474MR++F	ELECT 0.47MF 50V M R
C732	CF+50124JR++F	METAL POLY 0.12MF 50V J R
C733	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
or	CB+25333JRXRF	BC CON 0.033MF 25V J R XR
C734	CB+25822JRXRF	BC CON 0.0082MF 25V J R XR
C736	CB+25223JRXRF	BC CON 0.022MF 25V J R XR
C737	CB+25682JRXRF	BC CON 0.0068MF 25V J R XR
C738	CB+25152JRXRF	BC CON 0.0015MF 25V J R XR
C739	CC+50331KRSLF	CERAMIC 330PF 50V K R SL
C751	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C752	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C761	CE+50105RVLRS	ELECT 1MF 50V R V LR
C762	CC+50181KRSLF	CERAMIC 180PF 50V K R SL
C763	CM+50471MR++F	MYLAR 470PF 50V M R
C764	CE+10107MR++F	ELECT 100MF 10V M R
C765	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C766	CC+50330KRSLF	CERAMIC 33PF 50V K R SL
C768	CC500101KDSLS	CERAMIC 100PF 500V K D SL
C769	CC500101KDSLS	CERAMIC 100PF 500V K D SL
C771	CM+50473KR++F	MYLAR 0.047MF 50V K R
C801	CE+25475RVLRS	ELECT 4.7MF 25V R V LR
C802	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C803	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C804	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C805	CC+50471KRSLF	CERAMIC 470PF 50V K R SL
C806	CE+10336MR++F	ELECT 33MF 10V M R
C807	CW+50105RVLRS	NONPOLAR 1MF 50V R V LR
C811	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C812	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C813	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C814	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C815	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C821	CC+50331KRSLF	CERAMIC 330PF 50V K R SL
C822	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C823	CE+16226MR++F	ELECT 22MF 16V M R
C824	CE+16226MR++F	ELECT 22MF 16V M R
C830	CE+50225MR++F	ELECT 2.2MF 50V M R
C831	CE+50474MR++F	ELECT 0.47MF 50V M R
C832	CF+50124JR++F	METAL POLY 0.12MF 50V J R
C833	CB+25333JRXRF	BC CON 0.033MF 25V J R XR
C834	CB+25822JRXRF	BC CON 0.0082MF 25V J R XR
C835	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C836	CB+25223JRXRF	BC CON 0.022MF 25V J R XR
C837	CB+25682JRXRF	BC CON 0.0068MF 25V J R XR
C838	CB+25152JRXRF	BC CON 0.0015MF 25V J R XR
C839	CC+50331KRSLF	CERAMIC 330PF 50V K R SL
C851	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C852	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C861	CE+50105RVLRS	ELECT 1MF 50V R V LR
C862	CC+50181KRSLF	CERAMIC 180PF 50V K R SL
C863	CM+50471MR++F	MYLAR 470PF 50V M R
C864	CE+10107MR++F	ELECT 100MF 10V M R
C865	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C866	CC+50330KRSLF	CERAMIC 33PF 50V K R SL
C868	CC500101KDSLS	CERAMIC 100PF 500V K D SL
C869	CC500101KDSLS	CERAMIC 100PF 500V K D SL
C871	CM+50473KR++F	MYLAR 0.047MF 50V K R
C901	4-163T-11072	ELECT 4700MF 50V
C902	4-163T-11072	ELECT 4700MF 50V
C903	CE+50227MY++S	ELECT 220MF 50V M Y
C904	CE+50227MY++S	ELECT 220MF 50V M Y
C905	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C906	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C911	CE+25227MY++S	ELECT 220MF 25V M Y

CABINET & CHASSIS EXPLODED VIEW



SCHEMATIC DIAGRAM



S1 FUNCTION PHONO (ON OFF) SWITCH
S2 FUNCTION CD (ON OFF) SWITCH
S3 FUNCTION TV/AUX (ON OFF) SWITCH
S4 FUNCTION TUNER (ON OFF) SWITCH
S5 MONITOR (SOURCE TAPE) SWITCH
S6 LOUDNESS (ON OFF) SWITCH
S7 SPEAKER (ON OFF) SWITCH
S8 POWER (ON OFF) SWITCH

( ) : VOLTAGE AT NO SIGNAL

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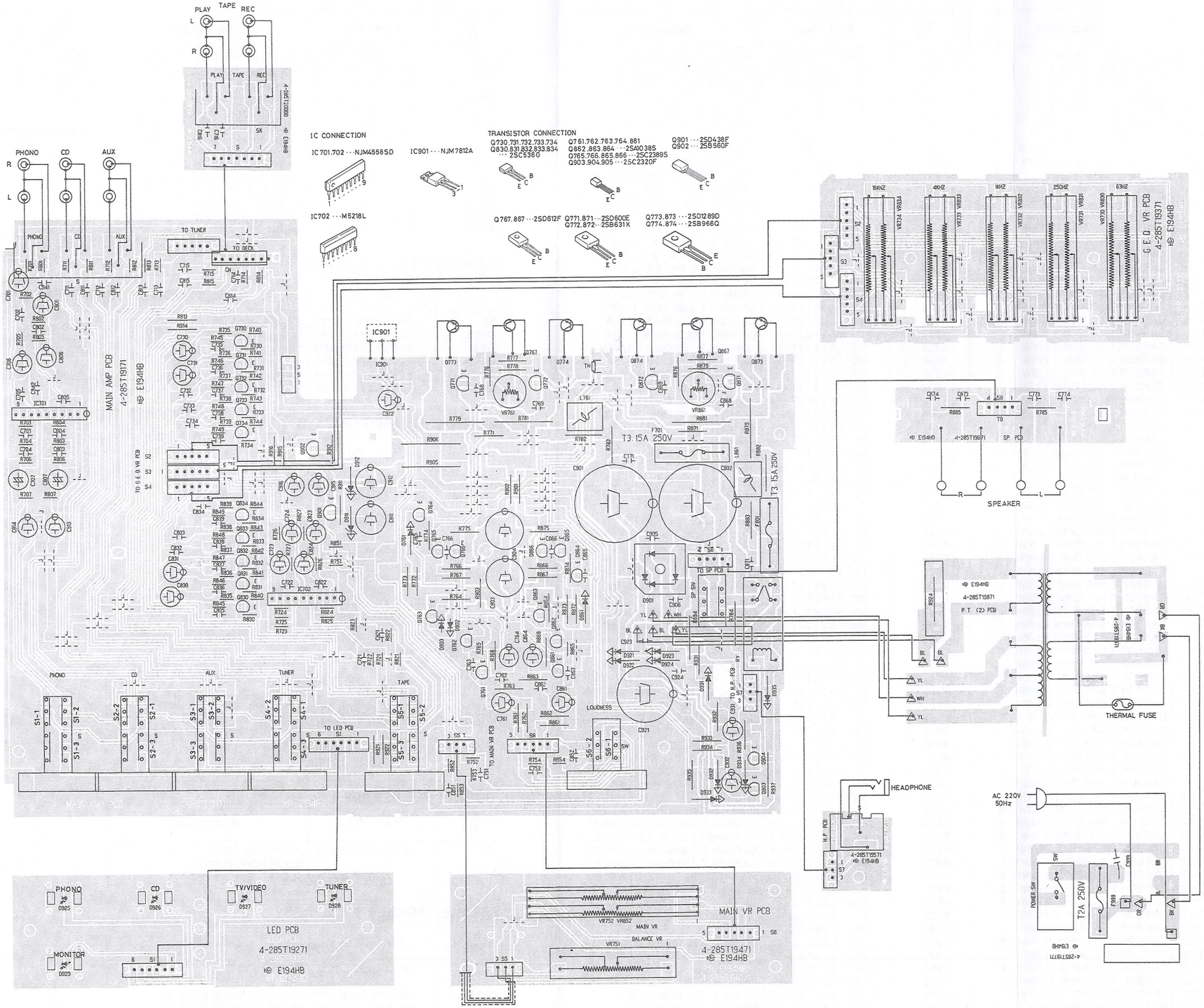
PLAY
TAPE
REC
L
R
PHONO
CD
AUX
TO TUNER
TO DECK
MAIN AMP PCB
4-285T19171
E194HB
IC CONNECTION
IC701,702 ···NJM4558SD
IC901 ···NJM7812A
IC702 ···M5218L
TRANSISTOR CONNECTION
Q730,731,732,733,734
Q830,831,832,833,834
···2SC536G
Q761,762,763,764,861
Q862,863,864 ···2SA0038S
Q765,766,865,866 ···2SC2389S
Q903,904,905 ···2SC2320F
Q901 ···2SD438F
Q902 ···2SB560F
Q767,867 ···2SD612F
Q771,871 ···2SD600E
Q772,872 ···2SB631K
Q773,873 ···2SD1289D
Q774,874 ···2SB966Q
T3.15A 250V
F701
TO G.E.Q. VR PCB
TO SP PCB
TO H.P. PCB
TO LED PCB
TO MAIN VR PCB
TAPE
LOUDNESS
PHONO
CD
AUX
TUNER
S1-1
S1-2
S1-3
S2-2
S2-1
S2-3
S3-1
S3-2
S3-3
S4-2
S4-1
S4-3
S5-1
S5-2
S5-3
S6-1
S6-2
SW
G.E.Q. VR PCB
4-285T19371
E194HB
16KHZ
4KHZ
1KHZ
250HZ
63HZ
VR734 VR834
VR733 VR833
VR732 VR832
VR731 VR831
VR730 VR830
SPEAKER
P.T. (2) PCB
4-285T19871
THERMAL FUSE
H.P. PCB
4-285T19571
HEADPHONE
AC 220V
50Hz
POWER SW
T2A 250V
LED PCB
4-285T19271
MONITOR
TV/VIDEO
MAIN VR PCB
4-285T19471
MAIN VR
BALANCE VR
VR752 VR852
VR751

PARTS LIST

Ref. No.	Part No.	Description
C912	CE+25227MY++S	ELECT 220MF 25V M Y
C913	CE+25476MR++F	ELECT 47MF 25V M R
C914	CE+25476MR++F	ELECT 47MF 25V M R
C915	CE+25476MR++F	ELECT 47MF 25V M R
C916	CE+25476MR++F	ELECT 47MF 25V M R
C921	CE+35108MY++S	ELECT 1000MF 35V M Y
C922	CE+16106MR++F	ELECT 10MF 16V M R
C923	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C924	CB+25104MRXRF	BC CON 0.1MF 25V M R XR
C931	CE+50225MR++F	ELECT 2.2MF 50V M R
C932	CE+10107MR++F	ELECT 100MF 10V M R
C941	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C942	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
R701	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R702	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6W
R703	RC⁄+6153JT+++	CARBON T 15K OHM J 1/6W
R704	RC⁄+6274JT+++	CARBON T 270K OHM J 1/6W
R705	RC⁄+6331JT+++	CARBON T 330 OHM J 1/6W
R706	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R707	RC⁄+6104JT+++	CARBON T 100K OHM J 1/6W
R711	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R712	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R713	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R714	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R715	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R721	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6W
R722	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6W
R723	RC⁄+6122JT+++	CARBON T 1.2K OHM J 1/6W
R724	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6W
R725	RC⁄+6471JT+++	CARBON T 470 OHM J 1/6W
R726	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6W
R727	RC⁄+6151JT+++	CARBON T 150 OHM J 1/6W
R730	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R731	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R732	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R733	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R734	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R735	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R736	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R737	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R738	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R739	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R740	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R741	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R742	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R743	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R744	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R745	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R746	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R747	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R748	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R749	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R751	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6W
R752	RC⁄+6333JT+++	CARBON T 33K OHM J 1/6W
R753	RC⁄+6105JT+++	CARBON T 1M OHM J 1/6W
R754	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R761	RC⁄+4102JT++R	CARBON T 1K OHM J1/4WR25
R762	RC⁄+4104JT++R	CARBON T 100KOHM J1/4WR25
R763	RC⁄+4683JT++R	CARBON T 68K OHM J1/4WR25
R764	RC⁄+4471JT++R	CARBON T 470 OHM J1/4WR25
R765	RC⁄+6331JT+++	CARBON T 330 OHM J 1/6W
R766	RC⁄+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R767	RC⁄+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R768	RC⁄+4471JT++R	CARBON T 470 OHM J1/4WR25
R771	RC⁄+4683JT++R	CARBON T 68K OHM J1/4WR25
R772	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R773	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R774	RC⁄+4153JT++R	CARBON T 15K OHM J1/4WR25
R775	⚠ RF⁄+4391JSFPR	FP-CARBON S 390 J 1/4WR25
R776	RC⁄+4332JT++R	CARBON T 3.3KOHM J1/4WR25
R777	RC⁄+4152JT++R	CARBON T 1.5KOHM J1/4WR25
R778	RF⁄+4391JSFPR	FP-CARBON S 390 J 1/4WR25
R779	RM++2R33JS+++	METAL S 0.33 OHM J 2W

Ref. No.	Part No.	Description
R781	RM++2R33JS+++	METAL S 0.33 OHM J 2W
R782	RF⁄+2100JSFP+	FP-CARBON S 10 J 1/2W
R783	RF⁄+25R6JSFP+	FP-CARBON S 5.6 J 1/2W
R784	RM++1391JS+++	METAL S 390 OHM J 1W
R801	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R802	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6W
R803	RC⁄+6153JT+++	CARBON T 15K OHM J 1/6W
R804	RC⁄+6274JT+++	CARBON T 270K OHM J 1/6W
R805	RC⁄+6331JT+++	CARBON T 330 OHM J 1/6W
R806	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R807	RC⁄+6104JT+++	CARBON T 100K OHM J 1/6W
R811	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R812	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R813	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R814	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R815	RC⁄+6102JT+++	CARBON T 1K OHM J 1/6W
R821	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6W
R822	RC⁄+6473JT+++	CARBON T 47K OHM J 1/6W
R823	RC⁄+6122JT+++	CARBON T 1.2K OHM J 1/6W
R824	RC⁄+6182JT+++	CARBON T 1.8K OHM J 1/6W
R825	RC⁄+6471JT+++	CARBON T 470 OHM J 1/6W
R826	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6W
R827	RC⁄+6151JT+++	CARBON T 150 OHM J 1/6W
R830	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R831	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R832	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R833	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R834	RC⁄+6391JT+++	CARBON T 390 OHM J 1/6W
R835	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R836	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R837	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R838	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R839	RC⁄+6561JT+++	CARBON T 560 OHM J 1/6W
R840	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R841	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R842	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R843	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R844	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R845	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R846	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R847	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R848	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R849	RC⁄+6683JT+++	CARBON T 68K OHM J 1/6W
R851	RC⁄+6222JT+++	CARBON T 2.2K OHM J 1/6W
R852	RC⁄+6333JT+++	CARBON T 33K OHM J 1/6W
R853	RC⁄+6105JT+++	CARBON T 1M OHM J 1/6W
R854	RC⁄+6562JT+++	CARBON T 5.6K OHM J 1/6W
R861	RC⁄+4102JT++R	CARBON T 1K OHM J1/4WR25
R862	RC⁄+4104JT++R	CARBON T 100KOHM J1/4WR25
R863	RC⁄+4683JT++R	CARBON T 68K OHM J1/4WR25
R864	RC⁄+4471JT++R	CARBON T 470 OHM J1/4WR25
R865	RC⁄+6331JT+++	CARBON T 330 OHM J 1/6W
R866	RC⁄+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R867	RC⁄+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R868	RC⁄+4471JT++R	CARBON T 470 OHM J1/4WR25
R871	RC⁄+4683JT++R	CARBON T 68K OHM J1/4WR25
R872	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R873	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R874	RC⁄+4153JT++R	CARBON T 15K OHM J1/4WR25
R875	⚠ RF⁄+4391JSFPR	FP-CARBON S 390 J 1/4WR25
R876	RC⁄+4332JT++R	CARBON T 3.3KOHM J1/4WR25
R877	RC⁄+4152JT++R	CARBON T 1.5KOHM J1/4WR25
R878	RF⁄+4391JSFPR	FP-CARBON S 390 J 1/4WR25
R879	RM++2R33JS+++	METAL S 0.33 OHM J 2W
R881	RM++2R33JS+++	METAL S 0.33 OHM J 2W
R882	RF⁄+2100JSFP+	FP-CARBON S 10 J 1/2W
R883	RF⁄+25R6JSFP+	FP-CARBON S 5.6 J 1/2W
R884	RM++1391JS+++	METAL S 390 OHM J 1W
R901	⚠ RF⁄+4330JSFPR	FP-CARBON S 33 J 1/4W R25
R902	⚠ RF⁄+4330JSFPR	FP-CARBON S 33 J 1/4W R25
R903	RC⁄+4333JT++R	CARBON T 33K OHM J1/4WR25
R905	⚠ RM++2471JS+++	METAL S 470 OHM J 2W
R906	⚠ RM++2471JS+++	METAL S 470 OHM J 2W
R911	RC⁄+4332JT++R	CARBON T 3.3KOHM J1/4WR25

PARTS LIST

Ref. No.	Part No.	Description
R912	RC⁄+4332JT++R	CARBON T 3.3KOHM J1/4WR25
R913	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R914	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R915	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R916	RC⁄+4270JT++R	CARBON T 27 OHM J1/4WR25
R921	RC⁄+4681JT++R	CARBON T 680 OHM J1/4WR25
R922	RC⁄+4122JT++R	CARBON T 1.2KOHM J1/4WR25
R931	RC⁄+4273JT++R	CARBON T 27K OHM J1/4WR25
R932	RC⁄+4222JT++R	CARBON T 2.2KOHM J1/4WR25
R933	RC⁄+4473JT++R	CARBON T 47K OHM J1/4WR25
R934	RC⁄+4273JT++R	CARBON T 27K OHM J1/4WR25
R935	RC⁄+4223JT++R	CARBON T 22K OHM J1/4WR25
R936	RC⁄+4103JT++R	CARBON T 10K OHM J1/4WR25
R937	⚠ RM++1102JS+++	METAL S 1K OHM J 1W

FUNCTION LED P.C.B. ASSY

Ref. No.	Part No.	Description
60	141-4-285T-19271	P.C BOARD ASSY, FUNCTION LED
D925	SLSLP238FB5PG	LED SLP238F-51P B GR
D926	SLSLP238FB5PG	LED SLP238F-51P B GR
D927	SLSLP238FB5PG	LED SLP238F-51P B GR
D928	SLSLP238FB5PG	LED SLP238F-51P B GR
D929	SLSLP138CB5RE	LED SLP138C-51 B RE

GRAPHIC EQUALIZER P.C.B. ASSY

Ref. No.	Part No.	Description
61	141-4-285T-19371	P.C BOARD ASSY, G.EQ
VR730,830	4-220T-07673	VARIABLE RESISTOR, 250KW, 63HZ
VR731,831	4-220T-07673	VARIABLE RESISTOR, 250KW, 250HZ
VR732,832	4-220T-07673	VARIABLE RESISTOR, 250KW, 1KHZ
VR733,833	4-220T-07673	VARIABLE RESISTOR, 250KW, 4KHZ
VR734,834	4-220T-07673	VARIABLE RESISTOR, 250KW, 16KHZ

VOLUME P.C.B. ASSY

Ref. No.	Part No.	Description
62	141-4-285T-19471	P.C BOARD ASSY, VOLUME
VR751	4-220T-30300	VARIABLE RESISTOR, BALANCE, 250KW
VR752,852	4-220T-20200	VARIABLE RESISTOR, VOLUME, 100KB

HEADPHONE SOCKET P.C.B. ASSY

Ref. No.	Part No.	Description
63	141-4-285T-19571	P.C BOARD ASSY, HEADPHONE SOCKET
	4-240T-80871	SOCKET, HEADPHONE

SPEAKER SOCKET P.C.B. ASSY

Ref. No.	Part No.	Description
69	141-4-285T-19671	P.C BOARD ASSY, SPEAKER SOCKET
C773	CM+50562KR++F	MYLAR 0.0056MF 50V K R
C774	CM+50562KR++F	MYLAR 0.0056MF 50V K R

Ref. No.	Part No.	Description
C873	CM+50562KR++F	MYLAR 0.0056MF 50V K R
C874	CM+50562KR++F	MYLAR 0.0056MF 50V K R
R785	RC⁄+4100JT++R	CARBON T 10 OHM J1/4WR25
R885	RC⁄+4100JT++R	CARBON T 10 OHM J1/4WR25

AC POWER P.C.B. ASSY

Ref. No.	Part No.	Description
65	141-4-285T-19771	P.C BOARD ASSY, AC POWER
	141-2-381T-04202	BRACKET, FUSE
	141-2-382T-18900	TERMINAL
S8	⚠ 4-238T-70380	SWITCH, POWER
C999	⚠ 4-223T-12100	CAPACITOR, 0.01MF, 400V
or	⚠ 4-223T-12280	CAPACITOR, 0.01MF, 125V

POWER TRANS (SEC.) P.C.B. ASSY

Ref. No.	Part No.	Description
66	141-4-285T-19871	P.C BOARD ASSY, POWER TRANS (SEC.)
R924	⚠ RM++2R33JS+++	METAL S 0.33 OHM J 2W

SOCKET P.C.B. ASSY

Ref. No.	Part No.	Description
68	141-4-285T-20000	P.C BOARD ASSY, SOCKET
	4-240T-50400	SOCKET, RCA 4P
	4-267T-15100	SOCKET, TO MAIN
C716	CC+50101KRSLF	CERAMIC 100PF 50V K R SL
C816	CC+50101KRSLF	CERAMIC 100PF 50V K R SL

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